OLSEN ASSOCIATES, INC.

ENGINEERS • ARCHITECTS • SURVEYORS

WM. H. SIGMON, A.I.A.
L. C. CHEEK, JR., P.E.
J. C. BROWN, P.E.

P. O. BOX 10666
TELEPHONE 919/834-0781
1330 ST. MARY'S STREET
RALEIGH, N. C. 27605

ASSOCIATES:

J. H. MAYNARD, JR., P.E.
K. L. HARROD
R. E. HILDEBRAN, P.E.
D. N. LEE, P.E.
W. M. PEERY, A.I.A.
J. W. JOHNSON, P.E.
J. S. PORTER, P.E.
T. B. DAMERON, P.E.

Larry

January 23, 1987

Mr. Larry Brant
Planning Branch
Public Works Office
Bldg. 1005
Marine Corps Base
Camp Lejeune, N.C. 28542

Subject: FY88 Project P-803
Field Maintenance Complex Increment II
Olsen Project 8606.01

Dear Mr. Brant:

Enclosed for your use is a summary of the conference held on 8 January 1987 regarding equipment needs for the subject project. I have also included prints of the floor plan onto which are noted the equipment lay-out, notes regarding building utility requirements, and design modifications. Please notify me if you have problems or suggestions regarding this material.

I understand that your office will be compiling a more comprehensive equipment list for this facility as design progresses past the 35% point. We will be pleased to assist you in this effort as necessary. Thank you very much for your continuing assistance in helping us to gain information necessary to design this project.

Yours very truly,

OLSEN ASSOCIATES, INC.

Dale N. Lee, P.E.
DNL:sw
enclosure
cc: Ms. Susan Gale, P.E.
Code 09A21B3

SUMMARY OF CONFERENCE FY88 PROJECT P-803
FIELD MAINTENANCE COMPLEX - INCREMENT II
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

A conference regarding the subject project was held in the H&S Company Second Maintenance Battalion conference room on 8 January 1987. The purpose of the conference was to discuss the equipment layout of the subject facility, especially with regard to those areas of the building where user requested changes had been made. A list of persons attending the conference is attached.

Each work area of the facility was discussed with personnel representing the user of the particular area. In all areas, the users furnished the designers with information regarding equipment requirements. In general, the discussion was limited to items of equipment for which special design provisions must be made (i.e. unusual pieces of equipment or pieces of equipment requiring building utilities such as electricity or water). At the time of the meeting, the users were not prepared to describe their needs with regard to routine equipment such as shelving, tool bins, etc.

During discussion of some areas, the users, in addition to furnishing equipment information, requested further design modifications.

A summary of the discussion for the various work areas follows (* indicates items representing design modifications):

Security Room - Room 117

- 18" deep shelves required around entire perimeter of room.
- A single line of 24" deep shelving required parallel to the long direction of the room.
- A 3.5' clear walkway should be provided between the 24" center shelf and the 18" perimeter shelves.
- A minimum number of 120 volt duplex convenience outlets should be provided in this room.
* Room must be air-conditioned.

PCB/Missile Repair - Room 116

- Work in this room consists of electronic parts repair at electronics workbenches.
- Each workbench requires a separate electrical supply circuit with a 30 amp 120 volt breaker.
- 12 workbenches placed around the periphery of the room are required.
- No 400 hertz power required.
- Workbenches plug directly into conventional outlets.
- A compressed air supply is required. Pressure required is 90 psi maximum. No dryer is required on air supply.
- An electrical ground bus is required around the perimeter of the room. Mounting height should be 4' above the floor.
- 100 foot candles of lighting is required at workbench height.

Mechanical Calibration Room - Room 119 (Formerly called Repair Shop)

- This room is used to calibrate precision equipment.
- Size of room should be 26' by 40' as previously requested.
- Temperature should be maintained within 68-80° F.
- Relative humidity should be maintained between 20 and 50%.
- Six workbenches should be provided and located around the periphery of the room.
- Each workbench plugs directly into a 120 volt receptacle.
- Each workbench should be served by a separate electrical circuit with a 20 amp breaker.
- A ground bar mounted 4' above the floor should be provided all around the room.
- A 1/2" diameter pipe sleeve should be provided through the north wall of the room. This sleeve is to accommodate a small diameter drain from a piece of calibration equipment. Locate 4' above floor.
- Window sills should be 4' above floor level.
- Compressed air is required in this room.
- Compressed air must be user variable from 10 to 90 psi. Compressed air must be dry.
- A double door to Room 122 should be provided.

Calibration Shop - Room 122

* Air-conditioned vestibules are required at both entries to this room to minimize temperature and humidity variations.
- Temperature must be held between 65 and 80° F.
- Relative humidity must be kept at less than 60%.
- 13 repair benches are required in this room.
- Each repair bench must be served by a 120 volt duplex outlet on a separate 30 amp circuit.
- Compressed air 90 psi maximum with air dryer is required.
- A ground bus is required around the entire periphery of this room.
- A 6' wide pass window with coiling shutter is required between this room and Room 123.
- Provide double door to Room 119.

Repair Shop - Room 123

- Six workbenches are required.
- Each workbench must be served by a 120 volt duplex outlet on a separate 40 amp circuit.
- Temperature and humidity requirements same as Room 122.
- 90 psi maximum compressed air with dryer is required.
- A ground bus is required around the periphery of the room.
- Exit door at south wall should be single door, not double.

Cleaning Room - Room 214

- Provide 90 psi maximum compressed air. Air must be dry.
- Entry door should be a double door.
- A viewing window to Room 213 should be provided.

- One work bench is required.
- Treat walls to reduce sound transmission and absorb noise from ultrasonic cleaners.
- Ultrasonic cleaners require 208 volt, 3-phase power.
- Provide a cold water faucet near ultrasonic cleaners.
- The ultrasonic cleaners will use a non-toxic cleaning fluid.
- Users will furnish through Larry Brant technical information for the ultrasonic cleaner and for the cleaning fluid.
- Ultrasonic cleaner will be located on the south wall. Provide a floor drain and a curb at this location to separate the drained area from the rest of the room.
- Provide wall mounted grounding bar.

Office Machine Repair - Room 213

- A grounding bar is required around the perimeter of this room.
- Temperature from 60 to 80° F and relative humidity less than 60%.
- Compressed air, 90 psi max, dry.

General Property Repair - Room 200

- This shop is used for testing miscellaneous equipment.
- A water supply with two cold water hose bibs is required at the south wall, to serve hydrostatic tester for fire extinguisher bottles.
- A floor drain is required in the hydrostatic tester area.
- One 90 psi maximum pressure compressed air reel is required. Dry air not required.

GSMR Supply - Room 201

- No special equipment needs in this room.

Canvas Repair - Room 217

* The one-ton bridge crane previously requested for this room is not required and should be deleted. This decision was affirmed by users and by Mr. Brant from the Planning Branch.
- Air hose reels should be capable of reaching any point on the floor of this room.
- Electric extension cord reels should be ceiling mounted and located where floor outlets were formerly indicated and should reach all areas of floor.
- Approximately 15' clear height is required in this room.
- Roof structure should be clear span across the entire width of this room since interior columns would interfere with canvas repair operations.
- Good general lighting is required at floor level for canvas repairs.
- Concrete floor should be designed for a 4,000 pound nominal capacity forklift.
- Five-ton capacity trucks may enter this area. Floor should be capable of supporting wheel loads.

Secure Storage - Room 218

- Size should be changed to 20' by 40'.
- Entry door should be relocated to north end of west wall.

Shop - Room 100

- An outboard motor test tank is required. Tank should be of steel construction with a 2-1/2" water supply and with a drain. Provide exhaust ventilation or hood for engine exhaust fumes.
- Tank size should be 10' long, 4' deep, 5' front to back.
- Front edge of tank should have a wooden 2x12 bolted to the edge to form a lip for attaching outboard engines.
- A 2' wide step, 12" off the floor should be provided along the front of the tank for testing personnel to stand on.
- Number of motors to be tested is 4 at 65 hp each maximum.
- A curb should be provided around the outboard test tank, leaving a 4' clear working space all around on three sides.
- Engine exhaust is required for decontamination unit repairs.
- Exhaust hoses should be 3" diameter. Twelve hoses are required, two hoses at each of six stations. Hoses should be spaced 4' apart. Under floor exhaust system is requested with 6' of hose. Floor openings for hoses should be located 10' from the west wall of the shop. Decontamination unit engines are 10 hp gasoline engines.
- Special electrical power supplies are required where noted on the plan. These supplies should all be furnished with a disconnect switch mounted on the wall. Equipment will be hard wired from this connection point by the user.
- The following power supplies are required: 3 locations with 120/208 volt 3-phase 30 amp, 60 hertz; also 2 supplies of 220 volt 3-phase 60 amp, 60 hertz; also one supply of 220 volt 3-phase 60 amp, 400 hertz.

Technical Library - Room 101

* This room should become a tool room rather than a technical library.

Offices - Rooms 104 and 105

* These two offices should be re-sized to be approximately 12' by 12' each and should be relocated to the southeast corner of Room 100.

All Areas

- Location of air supplies, telephone outlets, electrical outlets and other building utilities were marked on a floor plan.
- Exposed concrete floor with dust sealer is desired in all shop areas, including electronic repair areas. Vinyl tile should not be used except in offices.
- Location of utility outlets (120 volt duplex), air hose rack, and phone jacks as previously furnished by user are generally satisfactory.

DNL:sw

REPORT OF CONFERENCE

DATE: 8 JAN 87

LOCATION: Bldg. 1005, Public Works, MCB, CLNC

TIME & DATE:

SUBJECT: P-803 FIELD MAINT. COMPLEX (INCR. II)

PURPOSE: DEVELOPE EQUIPMENT PLAN

LIST OF ATTENDEES

NAME	RANK	TITLE	ORGANIZATION	TELEPHONE NO.
LARRY BRANT	CIV.	PLANNER	PWO, PLANNING	451-1833
MICHAEL PEERY	"	ARCHITECT	OLSEN ASSOC.	919-834-0781
DALE LEE	"	ENGINEER	" "	"
CWO STEVE SCHRIER	CWO2	CALIBRATION O	ELMACO 2ND MAINT	919-451-3370
GYSGT G.L. STEGALL	GYSGT	CAL CHIEF	" " "	" " "
SSGT J.T. BERRY	SSGT	mmc	GSMCO 2d MAINT BN	919-451-1322/3341
1STLT D.J. DAVIS	1STLT	XO ELMACO	ELMACO MAINT BN	451-5410/1985
Capt J.F. NELSON	CAPT	CO GSM	GSM Co 2d Maint BN	3341/1322
Capt A.D AISTON	Capt	S-4	H&S Co 2d Maint Bn	5222/3989

$4.2 mil.

1. COMPONENT	FY 19 88 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		1 OCT 86

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	FIELD MAINTENANCE COMPLEX, PHASE II

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
	214-53	P-803	3,950

9. COST ESTIMATES

Escalation 6% ITEM Escalated to 1 April 1988	U/M	QUANTITY	UNIT COST	COST ($000)
FIELD MAINTENANCE COMPLEX	SF	48,000	54.39	2,611
Building	SF	48,000	48.19	(2,313)
Built-in Equipment	LS	--	--	(235)
Operation and Maintenance Support Information	LS	--	--	(27)
Contractor Quality Management	LS	--	--	(36)
SUPPORTING FACILITIES	LS	--	--	968
Utilities	LS	--	--	(225)
Paving, Flexible and Sidewalk	SY	3,690	12.74	(47)
Paving, Rigid	SY	16,922	23.05	(390)
Site Improvements	LS	--	--	(306)
SUBTOTAL				3,579
CONTINGENCY (5%)				179
TOTAL CONTRACT COST				3,758
SUPERVISION, INSPECTION, AND OVERHEAD (5.5%)				207
TOTAL REQUEST				3,965
TOTAL REQUEST ROUNDED				3,950
EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS		(NON-ADD)		113

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Construct a single story masonry shop building with steel frame structure and shallow concrete foundation. Function of building to include repair shops, storage areas, office/admin areas, men and women's toilets, and covered dock area with ramp. A one-ton bridge crane is included in the canvas repair shop. A ten-ton monorail hoist is included in the engineer maintenance shop. Office/admin areas and OMR shop will be air conditioned. Other areas will include heating/ventilation only. The entire building to have fire alarm and sprinkler system. 400 Hz power and engine exhaust systems to be included in engineer shop. Compressed air system included in all shop areas. Supporting facilities will include site improvements, security lighting and fencing, utility connection, bituminous paved parking, and concrete paved equipment hardstand.

(Air conditioning 43.5 tons)

1. COMPONENT	FY 19 88 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		1 OCT 86

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA

4. PROJECT TITLE	5. PROJECT NUMBER
FIELD MAINTENANCE COMPLEX, PHASE II	P-803

11. REQUIREMENT: 442,600 SF ADEQUATE: 60,540 SF
SUBSTANDARD: 165,448 SF

PROJECT: Construct Phase II of Field Maintenance Complex

REQUIREMENT: This project is required to provide maintenance personnel with adequate and secure facilities to perform maintenance on combat field equipment.

CURRENT SITUATION: Personnel are working in substandard and makeshift facilities that are totally inadequate in size, configuration, utility requirements, and site location.

IMPACT IF NOT PROVIDED: Personnel will continue to work in substandard and makeshift facilities which will seriously impair maintenance operations at this Command.

SPECIAL CONSIDERATIONS CHECKLIST

P-NO 803 PROJECT TITLE FIELD MAINTENANCE COMPLEX, PHASE II
LOCATION MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA

Place a Check (✓) by each statement that is applicable.

POLLUTION PREVENTION, ABATEMENT, AND CONTROL

___ Air/water pollution will be caused by this project and will be abated by:
___ Corrective measures included as part of this project
___ Related Project No._____

ENVIRONMENTAL IMPACT

___ An environment impact assessment indicates the proposed project will significantly impact the environment or is highly controversial and a candidate environmental impact statement has been/will be submitted.

PRESERVATION OF HISTORICAL SITES AND STRUCTURES

___ The proposed project will have an effect on a district, site, building, structure, object or setting listed in the National Register of Historic places as indicated on the attached paper.

DESIGN FOR ACCESSIBILITY OF PHYSICALLY HANDICAPPED PERSONNEL

___ Provisions for physically handicapped personnel will not be provided because:_____

_____

FLOODPLAIN MANAGEMENT AND WETLANDS PROTECTION

___ Executive Orders 11988 and 11990 apply and have been accommodated.

"NEW START" CRITERIA FOR COMMERCIAL OR INDUSTRIAL ACTIVITIES PROGRAM

___ The project is a new start in accordance with OMB Circular A-76 and has been approved by the Assistant Secretary of the Navy.

INTERGOVERNMENTAL COORDINATION

___ OMB Circular A-95 applies and coordination of the project with state and area-wide clearinghouses and agencies has been accomplished.

PLANNING IN THE NATIONAL CAPITAL REGION (IF APPLICABLE)

___ The siting and configuration of the project have been submitted to the National Capital Planning Commission for approval.

___ The project has been approved by the Commission of Fine Arts and Advisory Council on Historic Preservation. Approval by the National Capital Planning Commission is pending.

NATO INFRASTRUCTURE PROGRAM (IF APPLICABLE)

___ Prefinancing under NATO procedures is planned for this project.

LIFE CYCLE COST ANALYSIS

___ A life cycle cost analysis has been performed for this project.

✓ Check here if none of the above statements are applicable.

BUILDING BUDGET ESTIMATE SUMMARY SHEET FOR P- 803

Title: FIELD MAINTENANCE COMPLEX, PHASE II

Costs Escalated to: 1 APRIL 88

Location: MARINE CORPS BASE, CAMP LEJEUNE, NC

Escalation: 6%

Prepared by: OLSEN ASSOC. INC. Date: 1 OCT 86

Contingency: 5%

	$/SF	$/SYS	SYS QUAN	TOTAL	BUILDING	BUILT-IN EQUIPMENT
Building 48,000 SF						
01 Foundation System	3.00	3.00	48,000 SF	144,000	144,000	--
02 Slab on Grade	2.58	2.52	49,180 SF	124,000	124,000	--
03 Structural System	3.60	3.60	48,000 SF	173,000	173,000	--
06 Roof System	7.02	6.61	50,950 SF	337,000	337,000	--
07 Exterior Wall System	8.12	12.85	30,354 SF	390,000	390,000	--
08 Interior Wall System	4.62	6.17	35,987 SF	222,000	222,000	--
09 Interior Finishes System	3.42	3.42	48,000 SF	164,000	164,000	--
10 Doors & Windows System	2.50	26.17	4,585 SF	120,000	120,000	--
11 Specialties System	0.62	0.62	48,000 SF	30,000	30,000	--
12 Plumbing - Domestic	1.31	2,100.00	30 FX	63,000	63,000	--
13 Roof Drainage	0.77	1,321.43	28 EA	37,000	37,000	--
16 Air Conditioning	1.60	1,770.11	43.5 TN	77,000	77,000	--
17 Heating & Ventilation	2.56	130.30	944 MBU	123,000	123,000	
18 Engine Exhaust System	0.23	5.50	2,000 CFM	11,000	--	11,000
20 Compressed Air System	0.54	650.00	40 CFM	26,000	--	26,000
22 Cranes & Hoists	1.19	5,181.82	11 TN	57,000	--	57,000
30 Interior Fire Protection**	1.81	1.81	48,000 SF	87,000	--	87,000
33 Interior Electrical **	7.25	7.25	48,000 SF	348,000	309,000	39,000
41 Telephone System	0.06	0.06	48,000 SF	3,000	--	3,000
Q3 Shop Equipment	0.25	0.25	48,000 SF	12,000	--	12,000
Subtotal	53.08		48,000 SF	2,548,000	2,313,000	235,000
O&M Support Information	0.56			27,000*		
Contr. Quality Managmt	0.75			36,000*		
Subtotal Building	54.39		48,000 SF	2,611,000*	2,313,000*	235,000*
Supporting Facilities						
50 Electrical Distribution		39.08	870 LF	34,000		
51 Electrical Substation		26.67	750 KVA	20,000		
52 Area Lighting		2,400.00	10 EA	24,000		
54 Communication		9.52	420 LF	4,000		
58 Heat Distribution		123.31	665 LF	82,000		
60 Sanitary Sewers		25.82	1,317 LF	34,000		
62 Water Distribution		28.88	935 LF	27,000		225,000*
74 Parking		12.40	3,467 SY	43,000		
75 Sidewalks		17.94	223 SY	4,000		47,000*
UA Concrete Hardstand		23.05	16,922 SY	390,000		390,000*
78 Storm Drainage		42.64	2,087 LF	89,000		
79 Site Earthwork		2.92	68,522 CY	200,000		
81 Topsoil Seed		1.06	1,882 SY	2,000		
85 Fencing		10.74	1,397 LF	15,000		306,000*
Subtotal Supporting Facilities				968,000		968,000*

Total Contract Cost w/o Contingency:	$	3,579,000
Contingency 5 %	$	179,000
Total Contract Cost	$	3,758,000
SIOH 5.5 %	$	207,000
Total Budget Cost	$	3,965,000
Rounded	$	3,950,000

*Asterisk indicates these totals on 1391s.

** See Next Sheet for Breakdown of these items

BUILDING BUDGET ESTIMATE SUMMARY SHEET FOR P- 803

Title: FIELD MAINTENANCE COMPLEX, PHASE II

Costs Escalated to: 1 APRIL 88

Location: MARINE CORPS BASE, CAMP LEJEUNE, N. C.

Escalation: 6%

Prepared by: OLSEN ASSOC. INC. Date: 1 OCT 86

Contingency: 5%

	$/SF	$/SYS	SYS QUAN	TOTAL	BUILDING	BUILT-IN EQUIPMENT
Building						
30 Interior Fire Protection						
26 - Sprinkler System	1.40	1.40	48,000 SF	67,000		67,000
28 - Fire Alarm System	0.41	0.41	48,000 SF	20,000		20,000
Subtotal	1.81	1.81	48,000 SF	87,000		87,000
33 Interior Electrical						
31 - Power System	3.90	275.00	680 KW	187,000	187,000	
32 - Lighting System	2.54	2.54	48,000 SF	122,000	122,000	
35 - 400 HZ	0.81	1,218.75	32 KW	39,000		39,000
Subtotal	7.25	7.25	48,000 SF	348,000	309,000	39,000
Subtotal Building						
Supporting Facilities						
Subtotal Supporting Facilities						

Total Contract Cost w/o Contingency:	$
Contingency ____ %	$
Total Contract Cost	$
SIOH 5.5 %	$
Total Budget Cost	$
Rounded	$

*Asterisk indicates these totals on 1391s.

DESIGN CONCEPTS

Activity and Location: MCB, CAMP LEJEUNE, NORTH CAROLINA

Project Title: FIELD MAINTENANCE COMPLEX, PHASE II (P-803)

Date: 1 OCTOBER 1986

Use of Definitives and Previous Designs

Design was based on NAVFAC Definitive Drawing Number 1294492.

Special Design Characteristics

This shop is the second of four contiguous increments of construction planned for fiscal years 1987, 1988, 1989, and 1990. Design of this increment has been accomplished in such a way as to allow connection to other increments and to allow optimum development of the site as future increments are constructed. Structural design provides for support of a 10-ton overhead monorail hoist in the engineer shop area and a one-ton bridge crane in the canvas shop. No other unusual design requirements exist.

Pollution Abatement Aspects of Design

Oil-water separators will be included in the project to preclude discharge of oil to waste collection systems. Erosion control will be required during construction of the facility. Air permits will be required and will be obtained for exhaust ventilation from parts cleaning and painting areas of the shop. There is no other anticipated pollution.

Special Engineering Services

A topographic ground survey has been performed.

Subsurface borings have been performed. The subsurface investigation indicates that the building can be founded on shallow spread footings.

A study was made during design of the first increment to establish a master development plan allowing effective incremental development of the entire facility.

A computer analysis has been performed to determine heating and cooling loads, energy consumption, and to establish conformance with DOD Design Energy Budgets.

To promote and maximize the efficiency, economy, and safety of the life cycle operation of the facility, development of Operation and Maintenance Support Information (OMSI) is proposed. Estimated cost of development is $27,000.

Energy Conservation

1. Energy Conservation:

   Design conforms to DOD design criteria. No additional conservation measures are recommended.

   Building Category Code is 210, Maintenance Facilities. Project is located in weather region 4, with a design energy budget of 85,000 BTU/SF/YR. Calculated energy budget is 36,782 BTU/SF/YR.

2. Solar Energy Applications:

   In view of recent past studies for active solar utilization at this location which clearly indicated solar energy not to be feasible, solar was not studied for this specific project.

3. Meters:

   Steam, water, and electrical meters will be included to measure building energy consumption.

4. Energy Monitoring and Control Systems (EMCS):

   Building mechanical system will be designed with a data terminal cabinet for future connection into the EMCS.

COLLATERAL EQUIPMENT REQUIREMENTS (Initial Outfitting)
SND LANTDIV 4-11010/6 (9/73)

DATE
1 OCT 86

1. ACTIVITY (Name and Location)
MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA

2. PROJECT TITLE
FIELD MAINTENANCE COMPLEX, PHASE II

P. NO.
P-803

COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN-TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
1. BUILT-IN EQUIPMENT TO BE MCON FUNDED	Engine Exhaust System	2,000	CFM	5.50	11,000
	Compressed Air system	40	CFM	650.00	26,000
	Cranes and Hoists	11	TON	5,181.82	57,000
	Sprinkler System	48,000	SF	1.40	67,000
	Fire Alarm System	48,000	SF	0.42	20,000
	400 HZ	32	KW	1,218.75	39,000
	Telephone System	48,000	SF	0.06	3,000
	Shop Equipment	48,000	SF	0.25	12,000
	TOTAL BUILT-IN EQUIPMENT				235,000
2. EXPENSE ITEMS					
7195-00-926-5939	Benches, work portable 48"x28"x34"	88	EA	160.28	14,105
7110-00-149-1630	Desk, flat top, dbl ped	5	EA	234.23	1,171
7110-00-149-1628	Desk, flat top, single ped	12	EA	180.09	2,161
7110-00-082-6229	Chair, rotary, tilting seat	7	EA	66.31	464
7110-00-958-8044	Chair, secretarial rotary	12	EA	64.60	775
7110-00-601-9849	Stand, typewriter, drop leaf	2	EA	85.60	171
7110-00-497-2012	Filing cabinet, 5 dwr, legal size, without lock	5	EA	146.20	731
7110-00-113-0816	Table, office, gen. purpose 60"x24"	5	EA	168.45	842
7125-00-764-6129	Cabinet, storage, dbl door	6	EA	132.78	797
7110-00-601-9822	Bookcase, 2 shelves	10	EA	82.92	829
7110-00-782-3503	Chair straight, without arms	12	EA	38.34	460
OP VIRCO	Student chairs, Model 7020	30	EA	30.35	910
6645-00-530-3342	Clock, wall	20	EA	8.20	164
7910-00-680-8296	Floor polisher	3	EA	209.90	630
4210-01-089-0875	Fire extinguisher, dry chemical, Class B/C, gas cartridge operated	5	EA	74.11	371

COLLATERAL EQUIPMENT REQUIREMENTS (Initial Outfitting)
SND LANTDIV 4-11010/6 (9/73)

DATE
1 OCT 86

1. ACTIVITY (Name and Location)
MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA

2. PROJECT TITLE
FIELD MAINTENANCE COMPLEX, PHASE II

P. NO.
P-803

COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN-TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
4210-00-720-1815	Fire extinguisher, 2-1/2 gal. air expelled water, Class A, stainless steel	5	EA	25.98	130
OP Singer Sewing Machine Co.	Heavy duty Singer sewing machine #730	3	EA	1,495.00	4,485
OP Singer	Sewing machine, light textile	1	EA	1,200.00	1,200
7195-00-004-6716	Rack, wearing apparel, 6 metal hangers	5	EA	49.39	247
McMaster-Carr POB 440, New Brunswick, NJ	Revolving steel stg bin #4649T41 pg. 135, cat 90	6	EA	276.27	1,658
	12" shelving with adj. std. 6 shelves 24 shelf clips 36" wide #4586T11 pg. 126	6	EA	63.76	383
7110-00-113-0816	Table, general purpose 60"x24"	8	EA	168.45	1,348
Presstell Co. 9705 Garvey Ave. El Monte, Cal 91733 (201)283-1225	Electronics repair bench 438 EN-10LP bench 96"x36"x35-1/2 #10, top 5 dwr, rt. and lft. lock with key wired, 18 AWG, 400 HZ, 60 HZ, 28 VOC on 20 A circuit breakers	47	EA	1,484.00	69,748
7195-00-285-5932	Work bench 48"x34"x28" 2 leg section	24	EA	185.90	4,462
OP McMaster Carr Cat 90	10 gal capacity pneumatic parts cleaner #3139K11 31"Lx21"Wx38"H pg. 946	3	EA	361.61	1,085
OP McMaster Carr Cat 90	5 gal capacity pneumatic parts washer, for small jobs, pg. 946 #3252K61	3	EA	68.16	205
OP McMaster Carr Cat 90	Transistorized ultrasonic cleaner #3410K51	3	EA	545.41	1,636
OP McMaster Carr Cat 90	Stainless steel pan #3410K53 for above	3	EA	51.82	155

COLLATERAL EQUIPMENT REQUIREMENTS (Initial Outfitting)
SND LANTDIV 4-11010/6 (9/73)

DATE
1 OCT 86

1. ACTIVITY (Name and Location)
MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA

2. PROJECT TITLE
FIELD MAINTENANCE COMPLEX, PHASE II

P. NO.
P-803

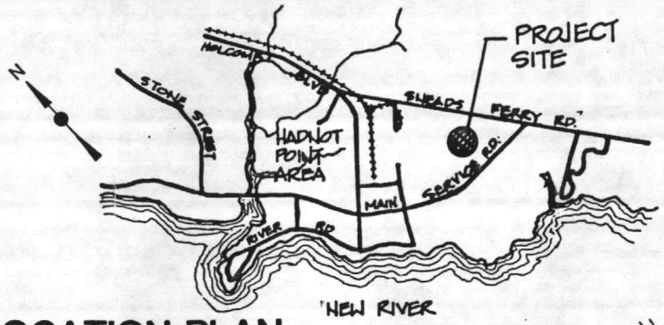
COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN-TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
McMaster Carr	Stainless steel basket #3410K52 for above cleaner	3	EA	76.91	231
McMaster Carr	Axel stand	1	EA	300.00	300
	TOTAL EXPENSE ITEMS				111,854
3. INVESTMENT ITEMS	None				
4. APA EQUIPMENT	None				
5. TRAINING EQUIPMENT					
6730-00-423-9992	Projector, movie, Bell & Howell 16 mm real sound, Tungsten Halogen 1.2" lens	2	EA	467.54	935
DA-LITE Screen Co. 3100 State Rd., Box 137 Warsaw, IN 46580 (219)267-8101	Screen, movie, picture king 84"x84" glass beaded	2	EA	126.42	253
GS-03S-81003 389B	Projector, overhead, specialist Model 389B	2	EA	203.00	406
	TOTAL TRAINING EQUIPMENT				1,594
6. OTHER EXPENSES	None				
7. EQUIPMENT ON HAND	To be furnished at the 90% design stage				
8. SUMMARY ITEMS 2-7					113,448
			ROUNDED		113,000

NAVFAC 11010/13 (Rev. 6-79)

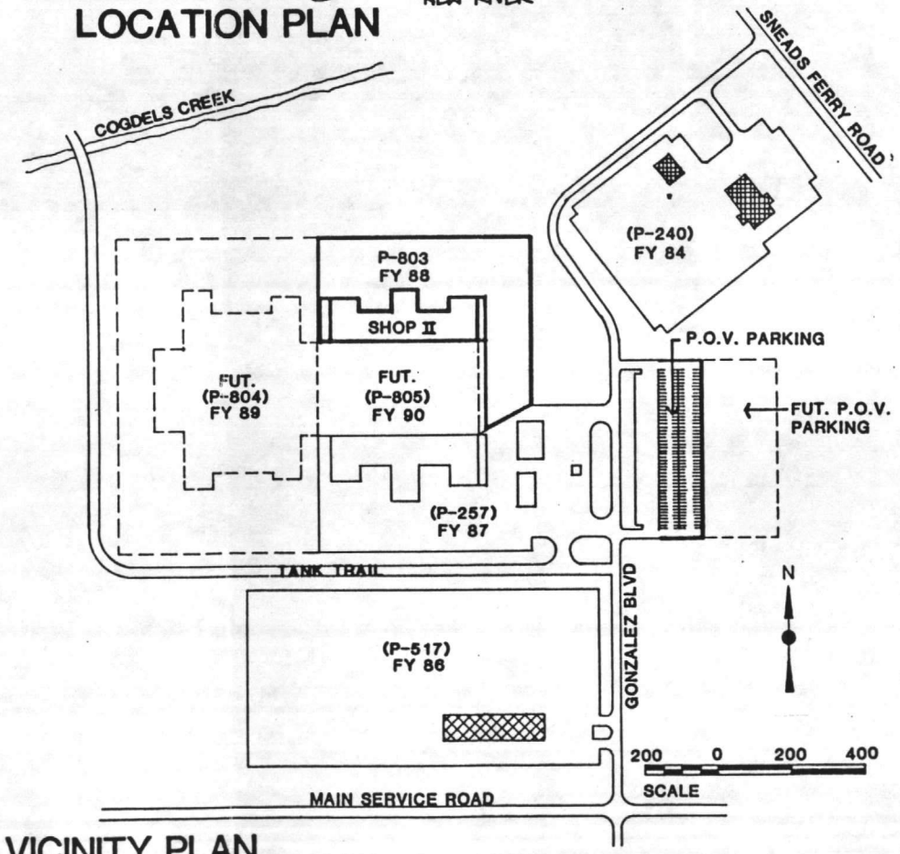
MILITARY CONSTRUCTION PROJECT WITNESS DATA

FY PROGRAM:

INSTALLATION	PROJECT TITLE	P-	DATE
MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA	FIELD MAINTENANCE COMPLEX, PHASE II	803	1 OCT. 1986



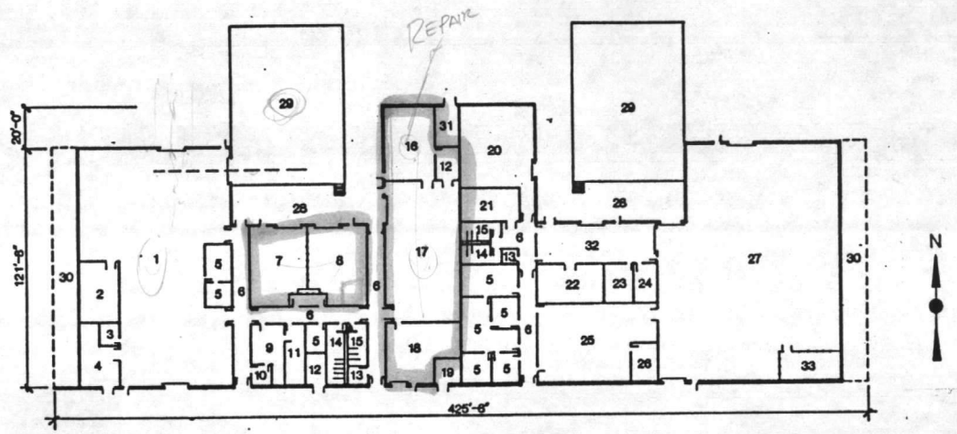
LOCATION PLAN



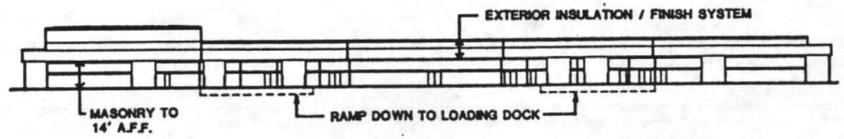
VICINITY PLAN

ROOM LEGEND

1.	SHOP	12.	STORAGE	23.	MAINTENANCE CHIEF
2.	TECHNICAL LIBRARY	13.	GEAR ROOM	24.	MAINTENANCE OFFICE
3.	SHOP OFFICE	14.	MEN	25.	OMR
4.	SHOP - ADMIN.	15.	WOMEN	26.	CLEAN ROOM
5.	OFFICE	16.	CLASS ROOM	27.	CANVAS SHOP
6.	CORRIDOR	17.	AC & REGRIG. SHOP	28.	LOADING DOCK
7.	IMA/PEB SUPPLY	18.	TOOL ROOM	29.	RAMP DOWN
8.	ORGANIC SUPPLY	19.	ELECTRICAL ROOM	30.	SHELTER
9.	ADMIN.	20.	GENERAL PROPERTY	31.	MECHANICAL ROOM
10.	COMPANY OFFICE	21.	GSMR SUPPLY	32.	GSM RECEIVING
11.	COMPANY ADMIN.	22.	INDUCTIONS OFFICE	33.	SECURE STORAGE



FLOOR PLAN



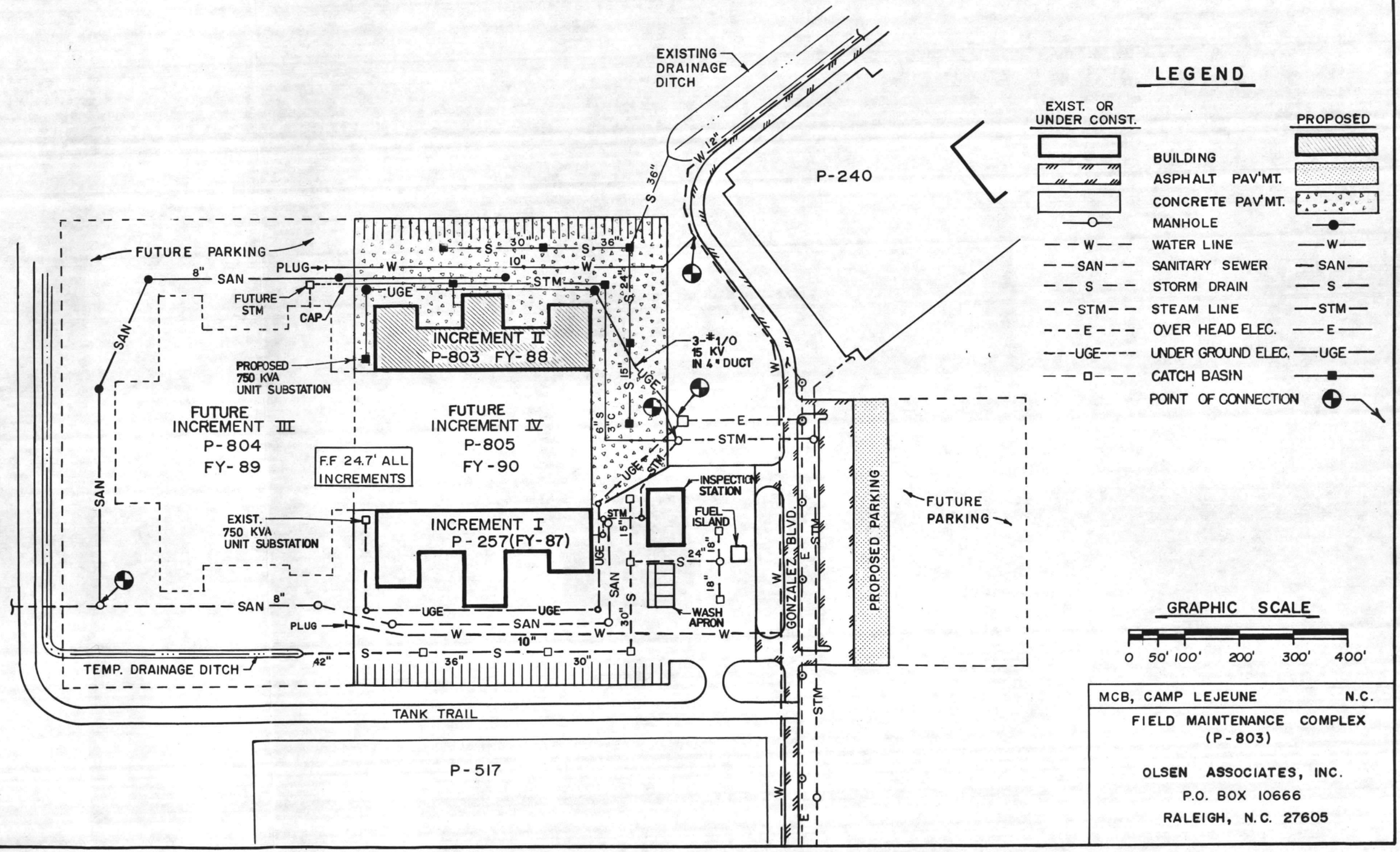
NORTH ELEVATION

20 0 20 40 60 80 100

W-1

PREPARED BY: Name OLSEN ASSOCIATES, INC. Extension _____

APPROVED BY ASSISTANT DIVISION DIRECTOR: CODE _____ INITIALS _____


EXISTING DRAINAGE DITCH
P-240
FUTURE PARKING
PLUG
8" SAN
FUTURE STM
CAP
INCREMENT II
P-803 FY-88
PROPOSED 750 KVA UNIT SUBSTATION
FUTURE INCREMENT III
P-804
FY-89
FUTURE INCREMENT IV
P-805
FY-90
F.F 24.7' ALL INCREMENTS
EXIST. 750 KVA UNIT SUBSTATION
INCREMENT I
P-257(FY-87)
3-#1/0 15 KV IN 4" DUCT
INSPECTION STATION
FUEL ISLAND
WASH APRON
GONZALEZ BLVD.
PROPOSED PARKING
FUTURE PARKING
TEMP. DRAINAGE DITCH
TANK TRAIL
P-517
LEGEND
EXIST. OR UNDER CONST.
PROPOSED
BUILDING
ASPHALT PAV'MT.
CONCRETE PAV'MT.
MANHOLE
WATER LINE
SANITARY SEWER
STORM DRAIN
STEAM LINE
OVER HEAD ELEC.
UNDER GROUND ELEC.
CATCH BASIN
POINT OF CONNECTION
GRAPHIC SCALE
0 50' 100' 200' 300' 400'
MCB, CAMP LEJEUNE N.C.
FIELD MAINTENANCE COMPLEX (P-803)
OLSEN ASSOCIATES, INC.
P.O. BOX 10666
RALEIGH, N.C. 27605

UNITED STATES MARINE CORPS
Marine Corps Base
Camp Lejeune, North Carolina 28542-5001

P.803

IN REPLY REFER TO:
5420/2
FAC
11 FEB 1986

From: Commanding General, Marine Corps Base, Camp Lejeune

Subj: MINUTES OF ENVIRONMENTAL ENHANCEMENT/ENVIRONMENTAL IMPACT REVIEW BOARD

Ref: (a) Chmn, EEIRB ltr 6280/1 FAC dtd 10 13 Jan 1986

Encl: (1) P-185, General Purpose Warehouse, MCAS, NR
(2) P-410, Bachelor Enlisted Quarters, MCAS, NR
(3) P-449, Commissary, MCAS, NR
(4) P-451, Aircraft Hangar Modernization, MCAS, NR
(5) P-520, Operational Trainer Facility, MCAS, NR
(6) P-810, Mechanics Training Building, Increment 3, Camp Johnson
(7) P-678, Combat Vehicle Maintenance Shop, Hadnot Pt
(8) P-626, Bachelor Enlisted Quarters, Hadnot Pt
(9) P-057, 2d FSSG Headquaters, French Creek
(10) P-257, Field Maintenance Shop
(11) P-065, Gymnasium, French Creek
(12) P-824, Chapel, Tarawa Terrace
(13) P-851, Electrical Distribution Improvements, Montford Pt
(14) P-842, Regional Automated Service Center
(15) P-841, Mess Hall Addition, French Creek
(16) P-803, Field Maintenance Complex, Increment 2
(17) P-124, Bachelor Officers Quarters, Paradise Pt
(18) P-672, Road Improvements, Brewster Blvd
(19) Mechanized Movement Course

1. Subject board was convened at 0930, 30 January 1986 in the Conference Room of Building 1 for the purpose of reviewing and acting on the preliminary environmental assessments (PEA) contained in enclosures (1) through (19). The following individuals were present:

Col R. A. Tiebout	Chairman
LtCol J. A. Marapoti, DivEngr	Member
LtCol W. M. Rice, BMaintO	Member
Capt M. D. Doman, SJA	Advisor
Capt Ralph Way, TFAC	Member
SSgt F. P. Walsh, 2d FSSG	Member
Mr. F. E. Acosta, MCAS, NR	Member
Mr. R. E. Alexander, EnvEngr	Advisor
Mr. F. W. Estes, Jr., PubWks	Guest
Mr. E. G. Jones, Jr., PubWks	Member
Mr. D. D. Sharpe, BEcologist	Advisor
Mr. J. I. Wooten, Dir, NREA	Advisor

2. Col Tiebout explained that the majority of the projects for review were for the MCON FY-88 program. A change now requires a biennial submission, which will combine FY-88/89. HQMC will be briefed on the submission 19 Feb 1986.

3. The following projects were approved as having no significant environmental impact/controversy or additional requirements except as noted.

a. P-185, General Purpose Warehouse, MCAS, NR. PEA was previously approved; however, project was expanded to 60,000 sq ft. Project will now require a State-approved erosion control plan because of the enlargement.

b. P-410, Three-Story Bachelor Enlisted Quarters, MCAS, NR. Project will be located in a forested area. Timber harvesting will be coordinated by NREA staff; project requires an approved sediment control plan with a study of stormwater release structures.

c. P-449, Commissary, MCAS, NR. Project will be in accordance with master plan in personnel support area; some tree harvesting and an approved sediment control plan will be required. Erosion problems in the storm channel must be addressed in the plan.

d. P-451, Aircraft Hangar Modernization, MCAS, NR. Project consists of a 60,000 sq ft addition to existing hangar; size of storm drainage system will be increased and a sediment control plan will be required. Mr. Acosta stated they were in the process of putting hazardous materials (HM) storage outside of each one of the hangars. He agreed to check into the requirement for HM lockers located inside to be vented to the outside.

e. P-520, Operational Trainer Facility, MCAS, NR. Facility will accommodate new swing-wing type trainer aircraft, and will be adjacent to existing trainer facility.

f. P-810, Mechanics Training Building (Increment #3, Montford Pt). All increments of project were covered by the master plan; impacts were assessed by P-808 in January 1982.

g. P-678, Combat Vehicle Maintenance Shop. Project will be located in Division shop area and will have pollution abatement facilities. An approved sediment control plan is required. Project will be included in the Cogdell's Creek watershed study.

h. P-626, Bachelor Enlisted Quarters, Hadnot Pt. Project will require demolition of buildings at existing site. LtCol Rice suggested drainage be looked at carefully during design because of all the new parking lots going in; sediment control plan is required.

i. P-057, 2d FSSG Headquarters. Previously approved January 1984.

j. P-256, Field Maintenance Shop. Project will require some timber harvesting and project will be in watershed study also. A sediment control plan is required.

k. P-065, Gymnasium and P-824, Chapel. Projects approved although it is doubtful they will ever be built considering budget cuts that will be forthcoming.

l. P-851, Electrical Distribution Improvements, Montford Pt. Project will increase electrical capacity of primary power to Montford Pt. Existing lines will be used; no adverse impacts noted.

m. P-842, Regional Automated Service Center. Project is planned for open area and should present no environmental problems.

n. P-841, Mess Hall Addition. Addition is being added to an existing building; no environmental constraints.

o. P-803, Field Maintenance Complex, Increment #2. Previous approval of Increment #2 also covers this project and two successive increments, P-804 and 805.

p. P-124, Bachelor Officer Quarters, Paradise Pt. Some timber removal may be required.

q. P-672, Road Improvements (Brewster Blvd Overpass). Timber harvesting and a sediment control plan will be required. Building 712, which is a NACIP study site, must also be addressed during project design.

r. Mechanized Movement Course. LtCol Marapoti briefed Board members on background and stated that this project has the highest priority of any Division project at this time. The mobility/countermobility portion of the course should be partially available by mid-June to concide with arrival of new vehicle at that time. He assured the Board that Division wished to avoid conflict with endangered species, archaeological sites and minimize soil erosion to the fullest possible extent and still be able to construct the course. Mr. Wooten will check into the possibility of having timber removal added to an existing contract. Existing road crossings are to be used. A walk-through of the area with the Division Engineer, Environmentalists and Tankers was suggested and restrictions that must be observed will be documented. The project will have no impact on LZ Bluebird. It was suggested that the portion of Mile Hammock Bay which has Red-Cockaded Woodpecker sites be excluded to eliminate any misunderstandings. A Corps of Engineers' review

Subj: MINUTES OF ENVIRONMENTAL ENHANCEMENT/ENVIRONMENTAL IMPACT REVIEW BOARD

will probably be a requirement because of the wetlands. A sediment basin may also be required. Mr. Alexander stated that an archaeologist's opinion would be required also. Col Tiebout directed Mr. Alexander to take the lead in coordinating efforts to try and meet the time frame.

4. Mr. Alexander informed the Board of a new requirement by the Corps of Engineers regarding rubble disposal. We now are required to place the rubble rather than just push it up. Cost of rubble disposal is to be studied; i.e., cost of having Base forces dispose of with continued use as rip-rap or require the contractor to dispose of it.

5. Mr. Wooten questioned the use of the current borrow pit adjacent to Curtis Road at the Air Station, as it is some of the highest ground in the area and would make a good site location for future projects. It was noted that a PEA will be available for Board review at the next meeting.

6. Mr. Alexander distributed copies of the North Carolina Environmental Permit Directory as an aid for members in determining environmental requirements/restrictions. Copies of this document will also be provided to architectural/engineering firms.

7. The meeting adjourned at 1100. Next meeting will be at the call of the Chairman.

R/S

R. A. TIEBOUT

CS: Concur: _____ Nonconcur _____

CG: Approved: 11 FEB 1986 Disapproved _____

DISTRIBUTION:

(Members)
Rep, 2d MarDiv (G-4)(w/encl (19) only)
Rep, 2d FSSG (G-4)(w/o encl)
Rep, 6th MAB (G-4)(w/o encl)
Rep, MCAS, NR (S-4)
TFACO (w/o encl)
BMO (w/o encl)
PWO

(Advisors)(w/o encl)
Dir, NREA
SupvEcologist
BWildlifeMgr
BGameProt, PMO
SAFD
SJA
DRMO
Ch, VetMedSvc, NavHosp
Ch, Occup/PrevMed, NavHosp

UNITED STATES MARINE CORPS
Marine Corps Base
Camp Lejeune, North Carolina 28542

ENVIRONMENTAL IMPACT/ENVIRONMENTAL ENHANCEMENT REVIEW BOARD

PRELIMINARY ENVIRONMENTAL ASSESSMENT (PEA)

SUBJ: P-803, Field Maintenance Shop, Increment #2

In accordance with Base Orders 11000.1B and 11015.2G, the subject action has been reviewed by the Marine Corps Base Environmental Impact Review Board.

BOARD ACTION

_____ The board agreed there appears to be no significant environmental impact or controversy associated with this project.

xx
_____ The Board agreed there appears to be no significant environmental impact or controversy associated with this project provided:

- A sediment control plan is developed during design and approved by N.C. Div of Land Quality.
- Stormwater impacts are mitigated using measures identified in the Cogdell's Creek Watershed Study.

_____ The Board agreed there is potential environmental impact with the project and recommends the following:

Copy to:
Action Sponsor
PEA File
EnvEngr

ENCLOSURE (1) 6

REQUEST FOR ENVIRONMENTAL IMPACT REVIEW; FORMAT AND PROCEDURES FOR SUBMISSION OF

1. Action Sponsor: Commanding General, Marine Corps Base, Camp Lejeune

2. Name, Address, Phone Number of Point of Contact: AC/S, Facilities, MCB, Attn: Mr. Gene Jones, Chief, Planning Branch, Public Works Div., Ext. 1833

3. Title and Brief Description of Proposed Action (state purpose, when proposed action is to occur, and any proposed environmental protection measure):

FIELD MAINTENANCE COMPLEX (P-803, INCREMENT #2)

I. PROJECT DESCRIPTION

The Field Maintenance Complex will be a permanent one story shop with piling, reinforced concrete foundation, floors and masonry walls. Built-up roof over installation and interior support systems, area lighting, exterior pavement, site work, and utilities connected.

II. PROJECT PURPOSE

The Complex will provide a consolidated Field Maintenance Facility for the 2d Maintenance Bn, 2d FSSG, to maintain and repair all East Coast Fleet Marine Force ground equipment. This includes wheel and track vehicles, heavy equipment, and communication/electronics equipment.

III. SITE SELECTION

The environmental impact of location of the project has been documented in the current Base Master Plan. This facility will be located in the French Creek area, in keeping with the Base Master Plan (see Enclosure (1)). The preferred site has been reviewed with Base Environmental personnel. No significant environmental impact or loss of natural resources were identified with this proposed site.

IV. CONCLUSION

Based on the information provided above and in the Base Master Plan, this project will not have significant adverse impact on the environment. Preparation of an environmental assessment per MCO 6280.5 is not required.

4. Location: Attach a Camp Lejeune Special Map (or equivalent quality map) showing location of proposed action/project site(s).

5. Potential Environmental Impact/Considerations: (See Note 1)

a. Air Quality: Will there be any open burning associated with the project/action? NO Will there be any new boilers, incinerators or fuel storage tanks (larger than 1,000 gallons) provided? YES Will there be any paint booths, solvent vats, degreasers or other vapor-producing industrial processes involved? YES Will the project involve the use or disposal of asbestos? NO Will project cause dust problems? NO

b. Land Quality: Will the action require use of significant amount of earthen fill material? UNKNOWN Will there be an increase in level of soil disturbance/damage to vegetation? _____ Will there be one acre or more of land cleared/disturbed? YES

c. Groundwater Quality: Does the project involve use of herbicides, insecticides or other pesticides in significant amounts? UNKNOWN Does the project involve installation/use of spectic tanks, or any other on-site disposal of sanitary waste? NO Will there be any wells dug or any excavations deeper than twenty feet? NO Will any toxic or hazardous material/waste requiring disposal be used or generated by the project? YES Will there be a net increase of solid waste caused by implementing the project/action? NO Will the project or action be carried out within 200 feet of a drinking water supply well? NO

d. Surface Water Quality: Is the project located on or in a water body or adjacent 100-year flood plain? UNKNOWN Will the project involve construction of drainage ditches/underground drains for purposes of lowering water table? NO Will all wastewater be connected to sanitary sewer? YES Will there be an increase in erosion/siltation from soil disturbing activity? _____ Will petroleum oil and lubricants be routinely stored or used at the site? YES Will the project increase rates of surface/storm water run-off? YES

e. Natural Resources: Will there be a loss of forest land? YES Will public access for hunting, boating, fishing, etc., be restricted? YES Is there a change in land use from what is presently shown in Base Master Plan? NO Will removal of existing vegetation be required? YES Are there any known effects on any endangered species? NO Does the project involve the purchase or sale of any real estate? NO

f. Socio-Economic Considerations: Will the project cause an increase/decrease in on or off-base military population? NO Will there be any increased demand on a local or state government to provide services? NO Will there be any changes to traffic flow and patterns on or off-base? NO Will any noise, traffic, dust, etc., be generated which may affect off-base persons or property? NO Is there any known controversy associated with the type of project or action proposed? NO Are there any historical or archaeological sites affected by project/action? NO

NOTE 1. Answer either "yes", "no" or "unknown". Answers should be based on information available to the action sponsor at time of submission to the Base Environmental Impact Review Board. Do not delay the submission of this request awaiting additional information. Many environmental considerations need to be addressed in early planning stages. If additional information becomes available after submission, it should be forwarded to the EIRB.

II R7

DEPARTMENT OF THE NAVY
ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511-6287

TELEPHONE NO.
444-9670
IN REPLY REFER TO:
09A21B3
11010
12 AUG 1985

From: Commander, Atlantic Division, Naval Facilities Engineering Command
To: Commanding General, Marine Corps Base, Camp Lejeune, North Carolina

Subj: FY 88-89 MILITARY CONSTRUCTION (MCON) PROGRAM FOR MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA; CERTIFICATION OF

Ref: (a) MCB CAMP LEJEUNE ltr 11000 PWO of 1 Jul 85

Encls: (1) Projected COMNAVFACENGCOM Cost Index dated 1 Oct 84
(2) Copy of Award Cost Data for CES Historical
(3) Draft copy of Guide for Preparation of 1391
(4) Draft copy of DM-10
(5) Copy of CES Unit Price Guide (FY 87)

1. Reference (a) requested that this Command certify the cost of all projects to Commander, Naval Facilities Engineering Command. To accomplish this, back-up cost information is considered necessary. A back-up estimate must be provided for each DD Form 1391. Lump-sum entries for supporting facilities are not acceptable. High supporting facility costs with lump-sum entries unexplained will be reduced.

2. A copy of the COMNAVFACENGCOM projected cost index of October 1984 is forwarded as enclosure (1). This index is updated in October of each year. The current area cost factor for your location is 0.86 Costs should be escalated to 1 April of the fiscal year shown on the DD Form 1391. State this to the left of "item" in block nine (cost estimates.) A contingency allowance of 10% is allowed only on projects in which the scope of work may be expanded for unforeseen items during construction, such as rehabilitation or underground.

3. General comments for MCB CAMP LEJEUNE FY 88 MCON program follows:

a. P-846 MOUT Training Complex
No questions, have made prior review.

b. P-626 BEQ
(1) Current LANTNAVFACENGCOM policy is to budget BEQ @ 820 sq.ft./2 room module this adjusts area to 492,000 sq. ft.
(2) Solar hot water heating does not prove to be economical at Camp Lejeune, this work will be deleted.

c. P-057 Division Headquarters was FY 87
NO questions.

d. P-803 Field Maintenance Complex
(1) Unit Price Shown is beyond all reason. Back up estimate for building must explain why cost is so high.

Subj: FY 88-89 MILITARY CONSTRUCTION (MCON) PROGRAM FOR MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA; CERTIFICATION OF

e. P-841 Mess Hall Addition
No questions.

f. P-678 Combat Vehicle Maintenance Shop
(1) Unit costs for buildings are very high. Back up estimate should show why.

g. P-810 Mechanics Training Bldg Inc #3
(1) Unit costs FT 87 for P-809 1391 certified 15 Jun, were $57/sq. ft. Bldg costs will be adjusted to this pricing level unless additional justification is provided.

h. P-256 Field Maintenance Shop
No questions.

i. P-124 BOQ
(1) Solar hot water heating does not prove to be economical at Camp Lejeune, this work will be deleted.

j. P-851 Electrical Dist. Imp.
No questions.

k. P-824 Chapel
(1) Cost shown is excessive, it will be reduced to cost similar to past projects.

l. P-065 Gymnasium
(1) Solar hot water heating does not prove to be economical at Camp Lejeune, this work will be deleted.

m. P-842 Regional Automated Service Center
(1) Cost shown for building are high, back up estimate should state scope of unusual features.

4. General comments for MCB CAMP LEJEUNE FY 89 MCON program follows:

a. P-529 BEQ
See comments on FY 88 BEQ, P-626

b. P-849 BOQ
See comments on FY 88 BOQ, P-124.

c. P-804 Combat/Auto/Track Field Maintenance Shop
See comments on P-803.

d. P-679 Elec/Comm. Field Maintenance Shop
(1) Solar hot water heating does not prove to economical at Camp Lejeune, this work will be deleted.

(2) Unit costs shown for the building are extremely high, without justification they will be reduced to those paid for similar facilities.

Subj: FY 88-89 MILITARY CONSTRUCTION (MCON) PROGRAM FOR MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA; CERTIFICATION OF

e. P-828 Field Medical Service School
   (1) Scope of work does not explain what is included in applied instruction space. This is needed for review of cost.

f. P-564 Elect/Comm. Maintenance Shop
   (1) Price is very high. Indicate scope of unusual features including scope of 400HZ and DC power systems.

   (2) Solar hot water systems have not proven to be economical in Camp Lejeune. This work will be deleted.

5. For future guidance, the following information is forwarded as enclosures (2) through (5):

- Copy of Award Cost Data for CES Historical.
- Draft copy of Guide for Preparation of 1391.
- Draft copy of DM-10.
- Copy of CES Unit Price Guide (FY 87.)

D. R. Phillips
By direction

Copy to: (w/o encls.)
COMNAVFACENGCOM
CMC (LFF-1)